### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International filing date (day/month/year) Priority date (day month year) International application No. PCT/SG2004/000073 30.03.2004 02.04.2003 International Patent Classification (IPC) or both national classification and IPC B24C7/00, B24C1/04, F16K11/074 Applicant GADD, Michael, William This opinion contains indications relating to the following items: Box No. □ Basis of the opinion Box No. Ⅱ Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. III ☐ Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial ☑ Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. **Authorized Officer** Name and mailing address of the ISA: European Patent Office Eder, R D-80298 Munich

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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

# JC09 Rec'd PCT/PTO 26 SEP 2005 International application No. PCT/SG2004/000073

_	E	Box N	o. I Basis of the opinion				
1	. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was field, unless otherwise indicated under this item.						
	(	la	nis opinion has been established on the basis of a translation from the original language into the following inguage—, which is the language of a translation furnished for the purposes of international search and response sear				
2		With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
	á	a. type of material:					
			a sequence listing				
`			table(s) related to the sequence listing				
-	t	b. format of material:					
			in written format				
			in computer readable form				
	C	c. time of filing/furnishing:					
			contained in the international application as filed.				
			filed together with the international application in computer readable form.				
			furnished subsequently to this Authority for the purposes of search.				
3	. C	ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as opropriate, were furnished.				
4		Additio	onal comments:				

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/SG2004/000073

	Box No. II	Priority		-					
_	BOX NO. II	Priority							
1.   The following document has not been furnished:									
	⊠	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).							
		translation of the ear	lier app	lication who	se priority has been claimed (Rule 43bis.1 and 66.7(b)).				
Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.									
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.								
3.	. Additional observations, if necessary:								
	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
1.	Statement								
	Novelty (N)	•	Yes: No:	Claims Claims	1-21				
	Inventive st	tep (IS)	Yes: No:	Claims Claims	1-21				
	Industrial a	pplicability (IA)	Yes: No:	Claims Claims	1-21				
2.	Citations ar	nd explanations							

see separate sheet

#### Re Item V.

- The following document is referred to in this communication:
   D1: WO 02/087827 A (MILLER DONALD STUART) 7 November 2002 (2002-11-07).
- 2 Document D1, which is considered to represent the most relevant state of the art, discloses a valve for shutting down an abrasive fluid connection between a source of abrasive flow and a cutting nozzle.

In order to shut the valve without excessive abrasion, the inlet port of the valved is provided with means to rinse the valve with clean water prior to shutting the valve.

From this, the subject-matter of independent claims 1, 2 and 12 differs in that the valve includes means to apply a back pressure to the outlet side thereof and the valve is a three way valve.

The problem to be solved by the present invention may be regarded as how to reduce wear due to excessive pressure applied to the valve body.

The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) since the prior art documents do not suggest to apply pressure to the outlet side of a valve.